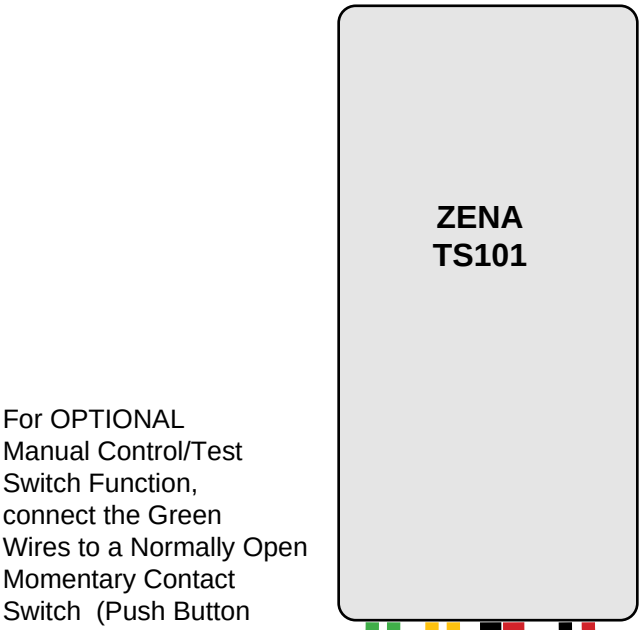
ZENA TS101 Electrode Contact Sensor Switch -- Typical Hookup



Troubleshooting:

There are 2 lights wisible inside the module (Red & Green).

The Red light should be "On" whenever power is "On", BUT will go "Off" whenever Green light is "On".

The Green light indicates that the switch Output is "On". This occurs whenever a low resistance electrical contact is made between the welding electrode and the material to which the ground clamp is attached.. The Green light will remail on for approx. 2-3 sec. after the electrical contact is broken.

The Green light will also switch "On" for 15-20 sec. Whenever the green panel switch/test switch leads are connected together.

The switch will not function if there is not "bare metal" contact between the ground clamp and the electrode.

For OPTIONAL Manual Control/Test Switch Function, connect the Green Wires to a Normally Open Momentary Contact Switch (Push Button or Foot Switch) **OR connect to TS101 Standard Cable Adapter**

Note GENDER of bullet connectors color of wires and size of wires when making connections to modules/adapters

#18 Gauge RED Wire Connects to Power Generator Positive (**+**) Output Terminal **OR to any other point electrically connected to the positive welding cable.**

DO NOT CONFUSE 18 Ga. wires with LARGER 14 Ga. Wires

#18 Gauge Black Wire Connects to Power Generator Negative (**–**) Output Terminal **OR to any other point electrically connected to the Negative welding cable.**

#14 Gauge Red Wire
To 12V Ignition Switched Power Source

DO NOT CONFUSE 14 Ga. wires with SMALLER 18 Ga. Wires

#14 Gauge Black Wire
Chassis Ground

Connect to #14 Gauge Black and #18 Gauge Yellow wires coming from ZENA PCIM.E **or** PCIM.I Power Control Interface Module **or to a TS101 Standard Cable Adapter**
(this is a Momentary Switch Connection input to PCIM or WC.12 module)

ZENA is a trademark owned by ZENA, Incorporated for its welding system and components.
ZENA, Incorporated • 330 Club Springs Road, Elmwood, Tennessee 38560 • 615-897-2011
©2004 by ZENA, Incorporated. All rights reserved.